OIPE

RAW SEQUENCE LISTING   DATE: 11/07/2001
PATENT APPLICATION: US/09/965,738   TIME: 14:30:14

Input Set : A:\es.txt
Output Set: N:\CRF3\11072001\I965738.raw

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       3 <110> APPLICANT: O'Brien, Timothy
       5 <120> TITLE OF INVENTION: Repeat Sequences of the CA125 Gene and Their Use for
Diagnostic and
       6         Therapeutic Interventions
       8 <130> FILE REFERENCE: 40715-258841
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/965,738
C--> 10 <141> CURRENT FILING DATE: 2001-09-27
      10 <150> PRIOR APPLICATION NUMBER: US 60/284,175
      11 <151> PRIOR FILING DATE: 2001-04-17
      13 <160> NUMBER OF SEQ ID NOS: 306
      15 <170> SOFTWARE: PatentIn version 3.0
      17 <210> SEQ ID NO: 1
      18 <211> LENGTH: 13
      19 <212> TYPE: PRT
      20 <213> ORGANISM: Homo sapiens
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      25 1               5                   10
      27 <210> SEQ ID NO: 2
      28 <211> LENGTH: 11
      29 <212> TYPE: PRT
      30 <213> ORGANISM: Homo sapiens
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      34 Phe Leu Thr Val Glu Arg Val Leu Gln Gly Leu
      35 1               5                   10
      37 <210> SEQ ID NO: 3
      38 <211> LENGTH: 8
      39 <212> TYPE: PRT
      40 <213> ORGANISM: Homo sapiens
      42 <400> SEQUENCE: 3
      44 Asp Thr Tyr Val Gly Pro Leu Tyr
      45 1               5
      47 <210> SEQ ID NO: 4
      48 <211> LENGTH: 8
      49 <212> TYPE: PRT
      50 <213> ORGANISM: Homo sapiens
      52 <400> SEQUENCE: 4
      54 Asp Gly Ala Ala Asn Gly Val Asp
      55 1               5
      57 <210> SEQ ID NO: 5
      58 <211> LENGTH: 240
      59 <212> TYPE: DNA
      60 <213> ORGANISM: Homo sapiens
      62 <220> FEATURE:
      63 <221> NAME/KEY: CDS
      64 <222> LOCATION: (1)..(240)
      66 <400> SEQUENCE: 5
      67 cgt cga cct ggc tct aga aag ttt aac acc acg gag aga gtc ctt cag        48
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p-5

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                   RAW SEQUENCE LISTING              DATE: 11/07/2001
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                   Input Set : A:\es.txt
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 68 Arg Arg Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln
 69 1           5                   10                  15
 71 ggt ctg ctc agg cct gtg ttc aag aac acc agt gtt ggc cct ctg tac      96
 72 Gly Leu Leu Arg Pro Val Phe Lys Asn Thr Ser Val Gly Pro Leu Tyr
 73             20                  25                  30
 75 tct ggc tgc aga ctg acc ttg ctc agg ccc aag aag gat ggg gca gcc     144
 76 Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Lys Lys Asp Gly Ala Ala
 77             35                  40                  45
 79 acc aaa gtg gat gcc atc tgc acc tac cgc cct gat ccc aaa agc cct     192
 80 Thr Lys Val Asp Ala Ile Cys Thr Tyr Arg Pro Asp Pro Lys Ser Pro
 81         50                  55                  60
 83 gga ctg gac aga gag cag cta tac tgg gag ctg agc cag ggt gat gca     240
 84 Gly Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu Ser Gln Gly Asp Ala
 85 65                  70                  75                  80
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 89 <211> LENGTH: 80
 90 <212> TYPE: PRT
 91 <213> ORGANISM: Homo sapiens
 93 <400> SEQUENCE: 6
 95 Arg Arg Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln
 96 1           5                   10                  15
 99 Gly Leu Leu Arg Pro Val Phe Lys Asn Thr Ser Val Gly Pro Leu Tyr
100             20                  25                  30
103 Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Lys Lys Asp Gly Ala Ala
104             35                  40                  45
107 Thr Lys Val Asp Ala Ile Cys Thr Tyr Arg Pro Asp Pro Lys Ser Pro
108         50                  55                  60
111 Gly Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu Ser Gln Gly Asp Ala
112 65                  70                  75                  80
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116 <211> LENGTH: 20
117 <212> TYPE: DNA
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120 <220> FEATURE:
121 <223> OTHER INFORMATION: Synthetic Primer       OK
123 <400> SEQUENCE: 7
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128 <211> LENGTH: 6
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C--> 130 <213> ORGANISM: Artificial
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Synthetic Primer       OK
135 <400> SEQUENCE: 8
137 Glu Arg Val Leu Gln Gly
138 1               5
140 <210> SEQ ID NO: 9
141 <211> LENGTH: 20
142 <212> TYPE: DNA
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Input Set : **A:\es.txt**
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C--> 143 <213> ORGANISM: Artificial
     145 <220> FEATURE:
     146 <223> OTHER INFORMATION: Synthetic Primer
     148 <400> SEQUENCE: 9
     149 gtgaatggta tcaggagagg   20
     152 <210> SEQ ID NO: 10
     153 <211> LENGTH: 6
     154 <212> TYPE: PRT
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     157 <220> FEATURE:
     158 <223> OTHER INFORMATION: Synthetic Primer   O K
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     163 1   5
     165 <210> SEQ ID NO: 11
     166 <211> LENGTH: 131
     167 <212> TYPE: PRT
     168 <213> ORGANISM: Homo sapiens
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     172 Glu Arg Val Leu Gln Gly Leu Leu Arg Ser Leu Phe Lys Ser Thr Ser
     173 1   5   10   15
     175 Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu
     176   20   25   30
     178 Lys Asp Gly Thr Ala Thr Gly Val Asp Ala Ile Cys Thr His His Pro
     179   35   40   45
     181 Asp Pro Lys Ser Pro Arg Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu
     182   50   55   60
     184 Ser Gln Leu Thr His Asn Ile Thr Glu Leu Gly Pro Tyr Ala Leu Asp
     185 65   70   75   80
     187 Asn Asp Ser Leu Phe Val Asn Gly Phe Thr His Arg Ser Ser Val Ser
     188   85   90   95
     190 Thr Thr Ser Thr Pro Gly Thr Pro Thr Val Tyr Leu Gly Ala Ser Lys
     191   100   105   110
     193 Thr Pro Ala Ser Ile Phe Gly Pro Ser Ala Ala Ser Pro Leu Leu Ile
     194   115   120   125
     196 Pro Phe Thr
     197   130
     199 <210> SEQ ID NO: 12
     200 <211> LENGTH: 130
     201 <212> TYPE: PRT
     202 <213> ORGANISM: Homo sapiens
     204 <400> SEQUENCE: 12
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     207 1   5   10   15
     209 Val Ser Ser Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu
     210   20   25   30
     212 Lys Asp Gly Ala Ala Thr Arg Ala Asp Ala Val Cys Thr His Arg Pro
     213   35   40   45
     215 Asp Pro Lys Ser Pro Gly Leu Asp Arg Glu Arg Leu Tyr Trp Lys Leu

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216      50                    55                    60
218 Ser Gln Leu Thr His Gly Ile Thr Glu Leu Gly Pro Tyr Thr Leu Asp
219 65                    70                    75                    80
221 Arg His Ser Leu Tyr Val Asn Gly Phe Thr His Gln Ser Ser Met Thr
222                   85                    90                    95
224 Thr Thr Arg Thr Pro Asp Thr Ser Thr Met His Leu Ala Thr Ser Arg
225             100                   105                   110
227 Thr Pro Ala Ser Leu Ser Gly Pro Thr Thr Ala Ser Pro Leu Leu Ile
228         115                   120                   125
230 Pro Phe
231     130
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 132
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 13
240 Glu Arg Val Leu Gln Gly Leu Leu Gly Pro Ile Phe Lys Asn Thr Ser
241 1                   5                     10                    15
243 Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Ser Leu Arg Ser Glu
244             20                    25                    30
246 Lys Asp Gly Ala Ala Thr Gly Val Asp Ala Ile Cys Ile His Arg Leu
247         35                    40                    45
249 Asp Pro Lys Ser Pro Gly Leu Asn Arg Glu Gln Leu Tyr Trp Glu Leu
250     50                    55                    60
252 Ser Lys Leu Thr Asn Asp Ile Glu Glu Leu Gly Pro Tyr Thr Leu Asp
253 65                    70                    75                    80
255 Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr His Gln Ser Ser Val Ser
256                   85                    90                    95
258 Thr Thr Ser Thr Pro Gly Thr Ser Thr Val Asp Leu Arg Thr Ser Gly
259             100                   105                   110
261 Thr Pro Ser Ser Leu Ser Ser Pro Thr Ile Met Ala Ala Gly Pro Leu
262         115                   120                   125
264 Leu Ile Pro Phe
265     130
267 <210> SEQ ID NO: 14
268 <211> LENGTH: 130
269 <212> TYPE: PRT
270 <213> ORGANISM: Homo sapiens
272 <400> SEQUENCE: 14
274 Glu Arg Val Leu Gln Gly Leu Leu Gly Pro Met Phe Lys Asn Thr Ser
275 1                   5                     10                    15
277 Val Gly Leu Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu
278             20                    25                    30
280 Lys Asn Gly Ala Ala Thr Gly Met Asp Ala Ile Cys Ser His Arg Leu
281         35                    40                    45
283 Asp Pro Lys Ser Pro Gly Leu Asn Arg Glu Gln Leu Tyr Trp Glu Leu
284     50                    55                    60
286 Ser Gln Leu Thr His Gly Ile Lys Glu Leu Gly Pro Tyr Thr Leu Asp
287 65                    70                    75                    80
```

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Input Set : A:\es.txt
Output Set: N:\CRF3\11072001\I965738.raw

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289 Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser Ser Val Ala
290                 85                  90                  95
292 Pro Thr Ser Thr Pro Gly Thr Ser Thr Val Asp Leu Gly Thr Ser Gly
293             100                 105                 110
295 Thr Pro Ser Ser Leu Pro Ser Pro Thr Thr Ala Val Pro Leu Leu Ile
296         115                 120                 125
298 Pro Phe
299     130
301 <210> SEQ ID NO: 15
302 <211> LENGTH: 130
303 <212> TYPE: PRT
304 <213> ORGANISM: Homo sapiens
306 <400> SEQUENCE: 15
308 Glu Arg Val Leu Gln Gly Leu Leu Gly Pro Leu Phe Lys Asn Ser Ser
309 1                   5                  10                  15
311 Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Ile Ser Leu Arg Ser Glu
312             20                  25                  30
314 Lys Asp Gly Ala Ala Thr Gly Val Asp Ala Ile Cys Thr His His Leu
315         35                  40                  45
317 Asn Pro Gln Ser Pro Gly Leu Asp Arg Glu Gln Leu Tyr Trp Gln Leu
318     50                  55                  60
320 Ser Gln Met Thr Asn Gly Ile Lys Glu Leu Gly Pro Tyr Thr Leu Asp
321 65                  70                  75                  80
323 Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser Ser Gly Leu
324                 85                  90                  95
326 Thr Thr Ser Thr Pro Trp Thr Ser Thr Val Asp Leu Gly Thr Ser Gly
327             100                 105                 110
329 Thr Pro Ser Pro Val Pro Ser Pro Thr Thr Ala Gly Pro Phe Leu Ile
330         115                 120                 125
332 Pro Phe
333     130
335 <210> SEQ ID NO: 16
336 <211> LENGTH: 130
337 <212> TYPE: PRT
338 <213> ORGANISM: Homo sapiens
340 <400> SEQUENCE: 16
342 Glu Arg Val Leu Gln Gly Leu Leu Arg Pro Leu Phe Lys Ser Thr Ser
343 1                   5                  10                  15
345 Ala Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu
346             20                  25                  30
348 Lys His Gly Ala Ala Thr Gly Val Asp Ala Ile Cys Thr Leu Arg Leu
349         35                  40                  45
351 Asp Pro Thr Gly Pro Gly Leu Asp Arg Glu Arg Leu Tyr Trp Glu Leu
352     50                  55                  60
354 Ser Gln Leu Thr Asn Ser Val Thr Glu Leu Gly Pro Tyr Thr Leu Asp
355 65                  70                  75                  80
357 Arg Asp Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser Ser Val Pro
358                 85                  90                  95
360 Thr Thr Ser Ile Pro Gly Thr Ser Ala Val His Leu Glu Thr Ser Gly
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file://C:\CRF3\Outhold\VsrI965738.htm

VERIFICATION SUMMARY   DATE: 11/07/2001
PATENT APPLICATION: **US/09/965,738**   TIME: 14:30:15

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11072001\I965738.raw**

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L:10   M:270 C: Current Application Number differs, Replaced Current Application No
L:10   M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:118  M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:130  M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:143  M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:155  M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:2301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:3529 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:51
L:3541 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:52
L:3553 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:53
L:3565 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:54
L:3577 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:55
L:3589 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:56
L:3601 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:57
L:3613 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:58
L:3625 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:59
L:3637 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:60
L:3649 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:61
L:3661 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:62
L:3673 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:63
L:3685 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:64
L:3697 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:65
L:3709 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:66
L:3919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:3922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:3925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:5572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:5574 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:5576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:5724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:5726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:5728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:5730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94
L:5837 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99
L:5839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99
L:5935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
L:5937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
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L:6081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109
L:6131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
L:6141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/965,738

DATE: 11/07/2001
TIME: 14:30:15

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11072001\I965738.raw**

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L:6174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112
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L:6199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:6201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:6203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:6218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114
L:6220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114
L:6278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:6280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:6282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:6284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116
L:6299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117
L:6301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117
L:6382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:6384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:6386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:6388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:6403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121
L:6440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:15011 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:301
L:15023 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:302
L:15035 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:303
L:15047 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:304
L:15059 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:305
L:15071 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:306
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